

Title (en)  
POLYNUCLEOTIDE VACCINES AND METHODS OF USING THE SAME

Title (de)  
POLYNUKLEOTIDIMPFSTOFFE UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)  
VACCINS POLYNUCLÉOTIDIQUES ET LEURS MÉTHODES D'UTILISATION

Publication  
**EP 4221739 A1 20230809 (EN)**

Application  
**EP 21876646 A 20211002**

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Abstract (en)  
[origin: WO2022072910A1] Disclosed herein are polynucleotides comprising a first nucleic acid encoding a first pathogen antigen and, optionally, a second nucleic acid encoding a second pathogen antigen, and, optionally, a nucleic acid encoding an immune modifier. In some aspects, the first pathogen antigen is a SARS-CoV-2 spike protein or antigenic fragment thereof. In some aspects, the second pathogen antigen is a SARS-CoV-2 protein or an antigenic fragment thereof. In some aspects, polynucleotide includes two or more different immune modifiers. Also disclosed herein are vectors, compositions, pharmaceutical compositions, vaccines, lyophilized compositions, and cells comprising such polynucleotides. Methods of production and therapeutic use are also disclosed herein.

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